NOTE

This file contains the PowerPoint presentation for the significant changes to the JFMM applicable to all Volumes. It has been designed to work with a Word document file that provides the specific changes. The pages of this file correspond to the Word document file included on this CD-ROM (JFMM Rev B Training Notes.doc).

COMFLTFORCOMINST 4790.3A

Rev B

JFMM Volume I

NEW CONSTRUCTION

New Construction
Major Milestones

Appendix A1:

- Changed the Approximate Schedule time for Habitability Inspection for In-Serve from 30 days to 60 days.
- Realigned the order of events accordingly.

Volume I, Chapter 1 Appendix A1;

Pre-Delivery

- REQUIREMENTS FOR IN-SERVICE

- Modified the main paragraph to conduct the Habitability Inspection 2 to 4 weeks prior to In-Service.

- Modified sub-paragraph b(1) to insure Ships Force has operational control of all systems required for ships safety.

Volume I. Chapter 3, paragraph 3.3.12; Volume I. Chapter 3, paragraph 3.3.12.b(1);

Builders Trials

New Note

- SHIP’S FORCE MUST HAVE OPERATIONAL CONTROL OF ALL SHIP’S SYSTEMS REQUIRED FOR SEA TRIALS PRIOR TO THE CONDUCT OF DOCK TRIALS.

Volume I. Chapter 4, paragraph 4.2.3;

Builders Trials

- **Modified testing language prior to the initial dive to standardize with Volume II.**

  - **Test** underwater log(s) **using the base course/reciprocal course method (i.e., inertial reference method) or other approved functional procedures to determine accuracy** .

  - Check Dead Reckoning Analyzer Indicator (DRAI), Dead Reckoning Analyzer (DRA), Dead Reckoning Tracers (DRT) and RPM indication. **If certified for electronic navigation, verify satisfactory operation of the Voyage Management System including the ability to receive inputs from the Navigation System, Electromagnetic Logs, Radar bearings, Sonar bearings, fathometer and Gyrocompass, as applicable.**

Volume I. Chapter 4, Appendix D, section 1.e; Volume I. Chapter 4, Appendix D, section 1.e;

JFMM Volume II

INTEGRATED FLEET MAINTENANCE

Automated MCA

- Surface Ships

  - Added sub-paragraph identifying Automated Machinery Condition Analysis.

Volume II, Part I, Chapter 2, paragraph 2.4.4.2;

CNO Availabilities

- Production Completion Date Modification
  - Now impacts availabilities in excess of 140 days vice 120 days.
- ISIC/TYCOM Responsibility
  - Adds requirement to audit the Consolidated Shipboard Maintenance Program for open REC's/DFS's prior to Fast Cruise.

Volume II, Part I, Chapter 3, Paragraph 3.3.4;
Volume II, Part I, Chapter 3, Paragraph 3.6.8.4.1.d(5);

CNO Availabilities

- Sea Trials - Submarines

  - Deleted reference to under**way** logs.

  - Clarified when to obtain “Stop Trim”..

Volume II, Part I, Chapter 3, Appendix O, section 3.a.5;
Volume II, Part I, Chapter 3, Appendix N, section 3.b.5;
Volume II, Part I, Chapter 3, Appendix O, section 3.h.8;

Fleet Maintenance Availabilities

SUBS ONLY

- Scheduled CMAVS

  - Clarified durations of Scheduled CMAV's for submarines

  - Added a new appendix requesting concurrence to defer, delete or shorten a scheduled CMAV

Volume II, Part I, Chapter 4, Paragraph 4.3.2.a; Volume II, Part I, Chapter 4, Appendix A

JFMM Volume III

DEPLOYED MAINTENANCE

JFMM Volume IV

TESTS AND INSPECTIONS

Boiler Inspections

- **Boiler Safety**

Modified the sub-paragraph to include the requirements of the NAVSEA Safety Manual S6470-AA-SAF-010

Volume IV, Chapter 3, Paragraph 5.b;

System Test Check List

Appendix A

- Various changes caused by revision to the higher level instruction
- Modified section 3.f to comply with S9505-AF-MMA-010
- Reworded section 6 to agree with NSTM 505

Appendix B

- Modified section 3.f to comply with S9505-AF-MMA-010
- Reworded section 6 to agree with NSTM 505

Volume IV, Chapter 9; Appendix A; Volume IV, Chapter 9; Appendix B;

DFS Clarification

Routing Inspection

- Requires a DFS to TYCOM with recommendation from the RMC

Strength and Integrity Inspection

- Requires a DFS to TYCOM and approval from NSWCCD

Volume IV, Chapter 17; paragraph 17.6.1; Volume IV, Chapter 17; paragraph 17.6.1;

Submarine Salvage Insp

New Requirement

- Requires a Salvage Inspection prior to Sea Trials for repairs of damage from collision or grounding where deformation is observed to be in the hull integrity envelope or supporting structure

Volume IV, Chapter 18; paragraph 18.2.1;

Bearing Log

New Bearing Log

- Completely modified the Bearing Log to conform with current requirements.

Volume IV, Chapter 19; Appendix A;

Safety Survey

Modified Timing of Safety Survey

- 3-5 months prior to UMI.

Volume IV, Chapter 26; paragraph 26.2.2;

JFMM Volume

QUALITY MAINTENANCE

Organizational Responsibilities

Executive Officer

Monitors QAO Audit Program

Engineer Officer

Coordinate training with QAO

Engineering Depart Master Chief Officer

Coordinate training with ships Engineer and QAO

Volume V, Part I, Chapter1;

Organizational Responsibilities

QA Officer

- Manages Audit Program
- Maintains record files of Audit Program
- Ensures QA training is conducted
- Assess training with Engineer and Eng Dept Master Chief
- Oversees formal qualification, oral qualification and maintains a master list of Work Center Supervisors and Maintenance Planners

Volume V, Part I, Chapter1; paragraph 1.5.12

Qualification and Training

Maintenance of Qualification:

- Clarified specific to the Engineering Department
- Added Fly-By-Wire Awareness training

ISIC:

- Added new section specific to Naval Submarine Support Center Assistant QAO

Work Center Supervisors and Planners:

- Specifies the qualification is for “maintenance” planners

QAO:

- Specifies training topics will be provided to the Engineer and to the Engineering Department Master Chief

Volume V, Part I, Chapter 3, Paragraph 3.2; Volume V, Part I, Chapter 3, Paragraph 3.3;
Volume V, Part I, Chapter 3, Paragraph 3.4; Volume V, Part I, Chapter 3, Paragraph

In-Process Controls

SUBS ONLY

Voyage or At-Sea Repairs

- Modified the depth a submarine is limited to until the ship's Commanding Officer has signed for a closed REC

Volume V, Part I, Chapter 5, Paragraph 5.10.6; Volume V, Part III, Chapter 5, Paragraph 5.11.5;

Audits, Surveillance, Evaluations And Assessments

Audits

- Now requires documentation of root cause, temporary and permanent corrective action taken.
- Identifies annual audits required.
- Modifies ISIC reporting requirements to Type Commander.

Volume V, Part I, Chapter 9, Paragraph 9.3.1; Volume V, Part I, Chapter 9, Paragraph 9.3.3;

Record Retention

Qualification Records

- Now includes Work Center Supervisors and maintenance planners.
- Qualification test results to be retained.
- Singed oral interview sheet to be retained.

Volume V, Part I, Chapter 7, Paragraph 7.4.1; Volume V, Part I, Chapter 7, Appendix B;

Q.A. Forms

Modifications

- Q.A. Form 2 – Added 2 new Notes for purpose 1 block 21.
- Q.A. Form 9 – Added 2 new Notes to Situation 1 block 14.
- Q.A. Form 12 – Added requirement to specify time duration of a noncompliant condition prior to correction.
- Q.A. Form 17D – New Q.A. Form to record access, removal and installation of SFCC's.
- Q.A. Form 34 – Modified table 3 QAI requirements.
- Q.A Form 34A – Modified Table 1 documentation requirements.

Volume V, Part I, Chapter 11;

VOLUME VI

MAINTENANCE PROGRAMS

Calibration

Equipment Marking

- Modified existing paragraph to cover installed equipment.
- New paragraph added to cover “other than installed” instrumentation.

Volume VI, Chapter 9, paragraph 9.7.3;

LPD-17 Class
MOGAS System

New paragraph

- Storage and Handling.
- Firefighting and Safety Requirements.
- Assessment and Certification reference.

Volume VI, Chapter 10.4.6; Volume VI, Chapter 10.5.c;

Corrosion Control

Entire Chapter Modified

- Requires use of Corrosion Control Information Management System.
- Responsibilities for Port Engineers and Maintenance Program Managers.
- Now includes RMC responsibilities.

Volume VI, Chapter 13;

Submarine Silencing

Added New references

- SE300-AZ-MMA-010 Description, Operation and Maintenance SSN21 Class Sonar Bow Dome for SSN 21 Class
- SE300-MA-MMA-011 Glass Reinforced Plastic (GRP) Bow Sonar Dome for SSN 688 Class

Volume VI, Chapter 23; Appendix E

Maintenance and Modernization Building Plan

Chapter Extensively Modified

- Incorporates CLASSRON.
- Removes requirement to redistribute funds across a class of ships.
- Removes references to MFOM 1.0.

Volume VI, Chapter 33;

Hot Wash

Modified the Program

- Added “Hot Wash Conceptual Model”
- Now includes performance impact.
- Modifies agenda for Hot Wash meetings.
- Establishes new Hot Wash web site.

Volume VI, Chapter 39, paragraph 39.3.1; Volume VI, Chapter 39, paragraph 39.4.10; Volume VI, Chapter 39, paragraph 39.5.1; Volume VI, Chapter 39, paragraph 39.6.1;

VOLUME VII

CONTRACTED SHIP MAINTENANCE

Contract Administration Q.A. Program

Changes include:

- Refined the definition of a minor nonconformity.
- Refined the definition of a major nonconformity.
- Clarified when the RMC will initiate a Corrective Action Request.

Volume VII, Chapter 11, paragraph 5.6.1; Volume VII, Chapter 11, paragraph 5.6.2;